FAX TRANSMISSION

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To:

Tony Gallegos - UDOG&M

Date:

January 24, 1997

Fax #:

801-359-3940

Pages:

4, including this cover sheet.

From:

Lee "Pat" Gochnour

Subject:

Tentative Interim Reclamation Costs - Lisbon Valley Project

COMMENTS:

Mr. Gallegos:

Per Board instructions, I have gone back and worked with the numbers for the first three years of production (See Attached Sheets). I do not have the ability to escalate this number. Does this escalation have to be five years? We will only be in operation for three! Are there any other areas that we can look at?

The acreage will be a little higher. However, costs are very close. Please call and lets discuss.

Pat G.!

cc - Bob Prescott - Summo

Summo USA Corporation			- 10 A	00/07		
Lisbon Valley Copper Project M/037/088		San Juan County		page "ESTIMATE"		e en
						243
Prepared by Utah State Di	ivision of O	il, Gas & M	ining			W. A. alpha
Details of Final Reclamation	1		The second second		***************************************	
-This estimate is a revision of the	ne 21-Jan-97	estimate by	The Winter	rs Co.	1	
-Items which have changed sin	ce the 03-0a	1971estimate	are highli	ghted 🧀 📆 😅		- A - A - A - A - A - A - A - A - A - A
	Total distu	rbed area =		1,048.0 acre	8	1-46
<u>Activity</u>	area	Quantity	Units	\$/unit	\$	
Waste dump A - 190 acres						
area of top	456,444		SY			
area of slope	462,680		SY			
scarify top (flat) area		456,444	SY	0.20	91,289	
12 inches soil on top of dump		152,148		1.25	190,185	
12 inches soil on slope		154,227		1.25	192,784	
seed entire surface		190	ACRE	174	33,060	
Total - waste dump "A" recla	mation				507,318	. 0
		ATT HERE IN THE STATE OF	-u '/			
Waste Dump "B" - 94 Acres		ive or 5				
area of top	197,222		SY			
area of slope	258,240		SY			21.289
scarify top (flat) area		197,222		0.20	39,444	54% 21,299
12 inches soil on top of dump		65,741		1.25	82,176	547. 44,375
12 inches soil on slope		86,080		1.25	107,600	
seed entire surface	.,	94	ACRE	174	16,356 y	
Total - Waste dump "B" recla	amation				245,577	103,588
Waste Dump "C" - 120 Acres	_ 88 AU	wa or 73	7.			
area of top	344,222		SY			
area of slope	238,633		SY			C CIA
scarify top (flat) area	200,000	344,222		0.20	68,844	737. 50,256
12 inches soil on top of dump		114,741		1.25	143,426 +	737. 104570)
12 inches soil on slope		79,544		1.25	99,430 *	27% 263846
seed entire surface			ACRE	174	20,880 ¥	75 15,242
Total - Waste Dump "C" recl	amation				332,581	197 mul
						197,045
Leach Pad - 254 Acres * 2	77,010	ore .	i			
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Reclamation of Miscellaneous Areas		***************************************	A 10 A		1
Pond Area - 11 Acres			in the		
raffinate pond - 12 inches soil	4,852	CY	1.25	6,065	
PLS pond - 12 inches soil	4,852	CY	1.25	6,065	
water runoff pond - 12 inches soil	8,229	CY	1.25	10,286	
seed 3 pond areas	11	ACRE	174	1,914	
Total - Pond Area Reclamation				24,330	24, 330
Plant & Crusher Area - 25.5 Acres - 20	Ans or 70	7.			
apply 12 inches soil	41,080	CY	1.25	51,350	
seed entire area	A	ACRE	174	4,437	
Total - Plant Area Reclamation				55,787	44,072
	KI.			33,737	1,2
Haul Roads - 40 Acres 21 Acres	52.50				
scarify	192,889	SY	0.20	38,578	
contour	64,296	CY	1.25	80,370	
apply 12 inches soil	67,511		1.25	84,389	
seed entire area		ACRE	174	6,960	
Total - Haul Road Reclamation				210,297	110,401
Power Line Corridor - 64 Acres*					
*Note the Power Co. has requested the	64	ACRE	n/c	0	
power line remain open					
Reseed Soil Stockpile Areas - 40 Acres	20 Acm M	501			
reseed 40 acres		ACRE	174	6.000	
Total - Reseed Soil Stockpile Areas	40	ACKE	1/4	6,960	3480
Total - Neseed Soil Stockpile Aleas				6,960	310
Fences & Berms* Around Open Pits					
fence around Sentinel Pit 1	5,620	LF	3.02	16,972	14,972
fence around Sentinel Pit 2	2,140	LF	3.02	6,463	6412
force and the Contemptal Diff	8 080	IF	3.02	27 120	27 120

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DIRECT COSTS				i i
Mobilization and Demobilization	1 LOT	35,000	5/, 35,000	26250
Leach Pad & Waste Dumps	combined total of previ	ous items	5,533,170	130,511
Misc. Surface Areas parking lots & processing areas	combined total of previ	ous items	400,989	248.668
Total Direct Costs			5,969,160	157765 425
INDIRECT COSTS				
Plant Dismantling*	1 LOT	450,000 y 7	5% 450,000	337,500
*Assumes no salvage value. Dismantling involve above ground structures & the breaking up and it				
Plugging monitoring wells with conc	حالات بنائد بنائد كالتعادي			
process area: 5 wells: 4-inch dia, 500 ft	2.500 If 3 Wells	2.20	5,500	3,300
process area: 5 wells; 4-inch dia, 500 ft. Navajo wells: 6 wells; 6-inch dia, 1200 ft	7,200 If 4 well	3.30	5,500 23,760	15,840
Engineering - 5% of total direct costs		298,458	.298,458	88,821
Owners Cost OMITTED	+ At will not be dup			
Water quality monitoring for 11 wells	(70 suply)		, ·	3 C 040
2 samples per well per year for 5 years	110 sample	500		
Revegetation monitoring for 5 years	5 year	5,000 🗸 🔽	7./ · 25,000	6750
Construction Management	1 LOT	180,199 🗴 🕏	18011994	48,653
Contingency (10% of Total Direct Co	sts) 1 LOT		\ #####596/91 6 #	177,643
Total Indirect Costs			1,634,833	24893931
Unadjusted Total Costs			7,603,993	24893931
Escalation for 5 years at 2.58%			1,032,853	
TOTAL RECLAMATION COSTS (2002	2-\$)		\$8,636,8461	
	average S/acre cost =	\$8,241	·	
30% of total reclamation costs (314.4	acres of disturbance)		\$2,591,054	, Eq. ,